

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 November 2003 (06.11.2003)

PCT

(10) International Publication Number
WO 03/092080 A1

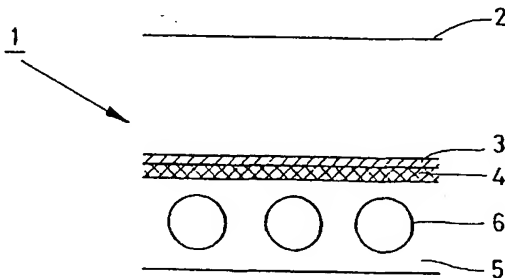
- (51) International Patent Classification⁷: **H01L 31/058**, G02F 1/15, 1/19
- (21) International Application Number: PCT/NL03/00233
- (22) International Filing Date: 27 March 2003 (27.03.2003)
- (25) Filing Language: Dutch
- (26) Publication Language: English
- (30) Priority Data:
1020281 29 March 2002 (29.03.2002) NL
- (71) Applicant (*for all designated States except US*): **STICHTING ENERGIEONDERZOEK CENTRUM NEDERLAND** [NL/NL]; Westerduinweg 3, NL-1755 Le Petten (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **VAN HELDEN, Wilhelmus, Gerardus, Jacobus** [NL/NL]; Oosterstraat 15, NL-1741 GH Schagen (NL). **ZONDAG, Herman, Albert** [NL/NL]; Koterstraat 29, NL-1826 CE Alkmaar (NL).
- (74) Agents: **DOHMEN, Johannes, Maria, Gerardus et al.**; Algemeen Octrooi- en Merkenbureau P.O. Box 645, NL-5600 AP Eindhoven (NL).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GI, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF VARIABLE REFLECTIVE MATERIAL (VAREM)



(57) Abstract: The present invention relates to the use of a variable reflective material (VAREM), which material can be considered to be an assembly of thin layers of metal alloys, whose optical properties can be varied between reflecting and absorbing in the optical part of the spectrum. Another object of the present invention is to provide a device for converting solar energy into thermal energy and possibly electric energy, which device is provided with an optically variable coating, which can be controlled in such a manner that the transmissivity to sunlight thereof can be varied as needed.

WO 03/092080 A1